

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

4/IDS

In re Application of:)
)
Masayuki YABUTA et al.) Group Art Unit: 1646
)
Application Number: 10/030,452) Examiner: To Be Assigned
)
Filed: January 10, 2002)

For: METHODS FOR REDUCING THE FORMATION OF BY-PRODUCTS IN THE
PRODUCTION OF RECOMBINANT POLYPEPTIDES

INFORMATION DISCLOSURE STATEMENT

Director of the United States
Patent and Trademark Office
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants are submitting herewith copies of the references listed on the attached Form PTO/SB/08A for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

For each foreign language document for which no translation is available, a concise explanation of the relevance of the document is included in the specification in accordance with 37 C.F.R. § 1.98(a)(3), or the document was cited by the Japanese Examiner in the Search Report of the corresponding application and relevance is indicated on the enclosed copy of the Search Report.

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form PTO/SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted prior to issuance of a first Office Action. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any



fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS

Dated: May 10, 2002

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Approved for use through 10/31/2002. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/030,452
Filing Date	January 10, 2002
First Named Inventor	Masayuki YABUTA et al
Group Art Unit	1646
Examiner Name	To Be Assigned
Attorney Docket Number	58777.000008

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	P1	TSAI, Larry B. et al., "Control of Misincorporation of <i>De Novo</i> Synthesized Norleucine into Recombinant Interleukin-2 in <i>E. Coli</i> ," <i>Biochemical and Biophysical Communications</i> , 156(2):733-739 (1988).	
	P2	BOGOSIAN, George, "Biosynthesis and Incorporation into Protein of Norleucine by <i>Escherichia coli</i> ," <i>The Journal of Biological Chemistry</i> , 264(1):531-539 (1989).	
	P3	APOSTOL, Izydor, et al., "Incorporation of Norvaline at Leucine Positions in Recombinant Human Hemoglobin Expressed in <i>Escherichia coli</i> ," <i>The Journal of Biological Chemistry</i> , 272(46):28980-28988 (1997).	
	P4	KANGAWA, Kenji, et al., "Purification and Complete Amino Acid Sequence of α -Human Atrial Natriuretic Polypeptide (α -hANP)," <i>Biochemical and Biophysical Research Communications</i> , 118(1):131-139 (1984).	
	P5	MASAKI, Takeharu: et al., "Studies on a New Proteolytic Enzyme from <i>Achromobacter Lyticus</i> M4971 II. Specificity and Inhibition Studies of <i>Achromobacter</i> Protease 1," <i>Biochimica et Biophysica Acta</i> , 660:51-55 (1981).	
	P6	NEIDHARDT, Frederick C., et al., "Chemical Composition of <i>Escherichia coli</i> ," <i>Escherichia coli and Salmonella Cellular and Molecular Biology</i> , Vol. I, pp. 13-16, ASM Press, Washington, DC (1996).	
	P7	TWIGG, Andrea J., et al., "Trans-Complementable Copy-Number Mutants of Plasmid ColE1," <i>Nature</i> , 283:216-218 (1980).	
	P8	KREDICH, Nicholas M., "Biosynthesis of Cysteine," <i>Escherichia coli and Salmonella Cellular and Molecular Biology</i> , Vol. I, pp.514-527, ASM Press, Washington, DC (1996).	
	P9	VOET, Donald et al., <i>Biochemistry</i> , Vol. 2, Second Edition, Tokyo Kagaku Dojin, pp. 869-870 (1988).	

Examiner
Signature

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Considered

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